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TITLE : FIRE RESISTANT ELECTROLYTE

ABSTRACT : PROBLEM TO BE SOLVED: To provide excellent fire resistance without giving a bad influence to the electric characteristic by adding the phosphate compound to the non- aqueous electrolyte. SOLUTION: In the electrolyte obtained by dissolving the electrolyte salt in the organic solvent, the organic solvent contains at least one kind of the phosphate compound expressed with a general formula. In the formula, R<1> means an alkylene group having 1-10 carbon atom, R<2> means an alkyl group, an aryl group or alkyl aryl group having 1-30 carbon atom, X means hydrogen atom, an alkyl group, an aryl group, an alkyl aryl group, an arcoxy group, an aryloxy group or an alkylaryloxy group, (m) means a numeric 1-10, (n) means a numeric 1-3. Tris methoxyethylphosphate or the like is used. In the case where this fire resistant electrolyte is used for a lithium secondary battery or the like, ignition of the electrolyte is restricted, and safety of the battery is effectively improved.